

INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES

Submitted by: General Motors Corporation	Atty. Docket No. GP-304476	Serial No. 101774, 296
	Applicants Ramesh B. Poola et al.	
	Filing Date	Group 3747

U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
mm	4,297,983	11/03/1981	Ward			
	4,474,147	10/02/1984	Hoopes			
	4,616,612	10/14/1986	Jane			
	4,883,032	11/28/1989	Hunter et al.			
	4,955,338	09/11/1990	Diwakar et al.			
	5,158,055	10/27/1992	Oh et al.			
	5,553,585 ✓	09/10/1996	Paro			
	6,164,260 ✓	12/26/2000	Bock			
	6,513,476	02/04/2003	Liu et al.			
	6,637,402 ✓	10/28/2003	Liu			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mm	"Effects of Combustion Chamber Geometry on In-Cylinder Air Motion and Performance in DI Diesel Engine" Paper 2000-01-0510, Society of Automotive Engineers, 2000 World Conference, Detroit, MI, March 6-9, 2000.
	"Investigation of Effects of Piston Bowl and Fuel Injector Offsets on Combustion and Emissions in D.I. Diesel Engines" Paper 2002-01-1748, Society of Automotive Engineers, Spring Meeting, Reno, NV, May 6-9, 2002.
	"Measurement and Modeling of the Flow-Field in a DI Diesel Engine: Effects of Piston Bowl Shape and Engine Speed" Paper 982587, Society of Automotive Engineers, Fall Meeting, San Francisco, CA, October 19-22, 1998.

Examiner M. McMathan Date Considered 11/24/04

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Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
m m	2002/0040346	11/15/2001	Takashima			
	2001/0048199	12/06/2001	Evans			
	2002/0189583	12/19/2002	Inoue et al.			
	2003/0015167	01/23/2003	Liu et al.			
	2003/0136372	07/24/2003	Liu et al.			
	2003/0140890	07/31/2003	Liu et al.			
	2003/0183178	10/02/2003	Caprotti et al.			
	2003/0184023	10/02/2003	Masuyama et al.			
	2003/0200955	10/30/2003	zur Loye et al.			
✓	2003/0221657	12/04/2003	Sananes			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

"Influence of Geometry on Flow in the Combustion Chamber of a Direct-Injection Diesel Engine" General Motors Corporation, Detroit, MI, Abstract of GM Document GMR-4995, June 14, 1985.

Examiner M. McMAHON

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11/24/04

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